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Quality Engineering Test Report

SERIES: DKE10B 10W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:
A. DKE10B-05 V1: +5V / 1000mA
V2: - 5V / 1000mA
B. DKE10B-12 V1: +12V / 420mA
V2: - 12V / 420mA
C. DKE10B-15 V1: +15V / 333mA
V2: - 15V / 333mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 18~36VDC O/P:FULL LOAD	C:16.5~36VDC	P
2	LINE REGULATION	I/P: 18~36VDC SPEC: ±0.3% O/P: FULL LOAD	A: V1: -0.2%~+0% V2: -0.2%~+0.2% B: V1: -0.08%~+0% V2: -0.17%~+0.08% C: V1: -0.01%~ +0.01% V2: -0.01%~ +0.01%	P
3	LOAD REGULATION	I/P: 24VDC SPEC: ±2% O/P:MIN. TO FULL LOAD	A: V1: -0%~+0% V2: -0.2%~+0% B: V1: -0.1%~+0% V2: -0.1%~+0% C: V1: -0.1%~ +0% V2: -0.2%~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 18~36VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A: V1: -1.4%~+3.2% V2: -1.8%~+3.0% B: V1: -1.7%~+1.7% V2: -1.8%~+1.4% C: V1: -0.13%~ +0% V2: -0.16%~ +0%	P
5	RIPPLE&NOISE	I/P: 24VDC SPEC: A:50mV B:60mV C:60mV O/P:FULL LOAD	A: V1:17mV V2:15mV B: V1:23mV V2:20mV C: V1:24mV V2:28mV	P
6	DC INPUT CURRENT	I/P: 24VDC SPEC: NONE O/P:FULL LOAD	C:0.51A	P
7	MAX. INRUSH CURRENT	I/P: 24VDC SPEC: NONE O/P:FULL LOAD	C:15.97A	P
8	O/P VOLTAGE ACCURACY	I/P: 24VDC SPEC: ±2% O/P:MIN. LOAD	A: V1:+5.02V V2:-5.01V B: V1:+12.1V V2:-12.08V C: V1:+15.38V V2:-15.40V	P
9	SET UP TIME	I/P: 24VDC SPEC: NONE O/P:FULL LOAD	C:52.8mS	P
10	HOLD UP TIME	I/P: 24VDC SPEC: NONE O/P:FULL LOAD	C:1.65mS	P
11	EFFICIENCY	I/P: 24VDC SPEC: 76% MIN O/P:FULL LOAD	A:83.3% B:86.2% C:79.2%	P
12	OVER LOAD PROTECTION	I/P: 24VDC SPEC: NONE O/P:TESTING	CURRENT LIMITING AUTO RECOVERY A:173% B:158% C:188%	P

NEXT

<table>
<tr><th>NO</th><th>TEST ITEM</th><th>TEST CONDITION / SPECIFICATION</th><th>RESULT</th><th>VERDICT</th></tr>
<tr><td>13</td><td>INSULATION RESISTANCE</td><td>SPEC:I/P-O/P 500VDC/100M Ohms MIN.</td><td>C:I/P-O/P >100M Ohms</td><td>P</td></tr>
<tr><td>14</td><td>DIELECTRIC / WITHSTAND VOLTAGE</td><td>SPEC: I/P- O/P: 500VDC/ 1 min
(10mA CUT-OFF)</td><td>C:NO BREAK
I/P-O/P:<0.5mA</td><td>P</td></tr>
<tr><td>15</td><td>BURN-IN TEST</td><td>I/P:24VDC O/P:FULL LOAD
TA:25°C BURN-IN DURATION : 4hrs</td><td>A:NO BREAK
B:NO BREAK
C:NO BREAK</td><td>P</td></tr>
<tr><td>16</td><td>TEMPERATURE RISE TEST T rise OF PARTS</td><td colspan="2">C:I/P :24VDC AFTER 4 hrs BURN-IN
O/P :FULL LOAD TA:25°C
<table>
<tr><th>POSITION</th><th>SAMPLE</th><th>TEMP</th><th>T rise</th></tr>
<tr><td>CASE</td><td>DKE10B-15</td><td>51.6°C</td><td>26.6°C</td></tr>
</table></td><td>P</td></tr>
<tr><td>17</td><td>CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)</td><td colspan="2">1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝
2. MARKING : MODEL LABELx1
3. MECHANICAL : SIX-SIDED SHIELD METAL CASE, PIN :1.0∅x7mm</td><td></td></tr>
</table>

DATE	SAMPLE	TEST RESULT	TEST	APPROVAL
980413	DKE10B-15	PASS	T.K.CHENG	MAX LIN
980730	DKE10B-05 DKE10B-12	PASS	T.K.CHENG	MAX LIN

PREVIOUS